Guthrie County, Iowa

Map symbol and soil name	Pct. of map unit	manure and food processing was	_	Application of sewage sludg 		Disposal of wastewater by irrigation 	n
	 			Rating class and limiting features		Rating class and limiting features 	
6: Okoboji	 - 100 	Depth to saturated zone Leaching limitation	1.00 0.70	Restricted permeability	11.00	 Very limited Depth to saturated zone Restricted permeability	1.00
8B: Judson	 - 100 	 Not limited 	 	 Not limited 		 Somewhat limited Too steep for surface application	 0.08
8C: Judson	 - 100 	 Not limited 	 	 Not limited 	 	 Somewhat limited Too steep for surface application Too steep for sprinkler application	 0.91 0.02
9B: Marshall	 - 100 	 Not limited 	 	 Not limited 		 Somewhat limited Too steep for surface application	 0.08
9C2: Marshall	 - 100 	 Not limited 	 	 Not limited 			 0.91 0.02
9D2: Marshall	 - 100 	 Somewhat limited Slope 	 0.63 	 Somewhat limited Slope 	 0.63 	 Very limited Too steep for surface application Too steep for sprinkler application	1.00

Guthrie County, Iowa

Map symbol and soil name	Pct. of map unit	manure and food processing was	-	Application Of sewage sludg Of sewage sludg		Disposal of wastewater by irrigation 	
	 	=		Rating class and limiting features		-	
11B: Colo	 60 	· =	11.00		11.00	 Very limited Depth to saturated zone Too steep for surface application	 1.00 0.08
Judson	 30 	 Not limited 	 	 Not limited 	 	 Somewhat limited Too steep for surface application	 0.08
24B: Shelby	 100 	Restricted permeability	0.30 	·	0.22	Somewhat limited Restricted permeability Too steep for surface application Too acid	0.22
24C2: Shelby	 100 	permeability		 Somewhat limited Restricted permeability Too acid 	0.22		 0.91
24D2: Shelby	 100 	 Somewhat limited Slope Restricted permeability Too acid	 1 0.63 1 0.30 1 0.02	Slope Restricted permeability	0.63 	surface application Too steep for sprinkler application	 1.00 0.77 0.22
24E2: Shelby	 100	 Very limited	 	 Very limited	 	 Very limited	

Guthrie County, Iowa

Map symbol and soil name	Pct. of map unit	manure and food processing was	Application of sewage sludg	e	Disposal of wastewater by irrigation		
		 Rating class and limiting features 		Rating class and limiting features 		 Rating class and limiting features 	
	 	 Slope 	11.00	 Slope 	11.00	 Too steep for surface application	11.00
	<u> </u> 	Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler	11.00
	 	 Too acid 	0.02	 Too acid 	 0.07 	application Restricted permeability	10.22
24E3:		 		 		Too acid 	0.07
Shelby	- 100 	 Very limited Slope 	11.00	Very limited Slope 	11.00	surface	11.00
		Restricted permeability	0.30	Restricted permeability	0.22	sprinkler	11.00
		 Too acid 	0.02	 Too acid 	0.07	application Restricted permeability Too acid	 0.22 0.07
24F2:	 	 	 	 	 	100 acid 	
Shelby	- 100 	Very limited Slope 	1.00	Very limited Slope 	11.00	Very limited Too steep for surface application	11.00
		Restricted permeability	0.30	Restricted permeability	0.22		11.00
		 Too acid 	0.02	Too acid 	0.07	Restricted permeability	0.22
24F3:	 	 	 	 	 	Too acid 	0.07
Shelby	- 100 	Very limited Slope 	1.00	Very limited Slope 	11.00	surface	11.00
		 Restricted permeability	10.30	 Restricted permeability	0.22	application Too steep for sprinkler application	11.00
		Too acid 	0.02	Too acid 	0.07		0.22 0.07
51A:		 		 		100 acid 	

Guthrie County, Iowa

Map symbol and soil name	Pct. of map unit	manure and food processing was	l-	Application Of sewage sludg		Disposal of wastewater by irrigation 	
	i 			Rating class and limiting features			
	 	Depth to saturated zone Flooding	İ	Flooding Depth to saturated zone	11.00	Depth to saturated zone Flooding 	 1.00 0.60
51A+: Vesser	 - 95 	saturated zone	1.00 	Flooding Depth to	1.00 	 Very limited Depth to saturated zone Flooding 	 1.00 0.60
54: Zook	 - 100 		1.00 1.00 0.60		1.00 1.00	Restricted permeability	 1.00 1.00 0.60
54+: Zook	 - 100 	permeability Depth to saturated zone	1.00 1.00 	Flooding Restricted permeability	1.00 1.00	 Very limited Depth to saturated zone Restricted permeability Flooding	 1.00 1.00 0.60
55A: Nicollet	 - 95 	 Somewhat limited Depth to saturated zone 		 Somewhat limited Depth to saturated zone		 Somewhat limited Depth to saturated zone	10.02
62C2: Storden	 - 100 	 Not limited 		 Not limited 	 	 Somewhat limited Too steep for surface application Too steep for sprinkler application	 0.91 0.02

Guthrie County, Iowa

Map symbol and soil name	Pct. of map unit	manure and food processing was	l-	Application Of sewage sludg	e	Disposal of wastewater by irrigation 	
	; 	Rating class and limiting features		Rating class and limiting features		Rating class and limiting features	Value
62D2: Storden	 100 	 Somewhat limited Slope 	 0.63 	 Somewhat limited Slope 	 0.63 	 Very limited Too steep for surface application Too steep for sprinkler application	 1.00 0.77
62E2: Storden	 100 	 Very limited Slope 	 1.00 	 Very limited Slope 	 1.00 		 1.00 1.00
62F2: Storden	 100 	 Very limited Slope 	 1.00 	 Very limited Slope 	 1.00 		 1.00 1.00
65E2: Lindley	 100 	 Very limited Slope 	 1.00 	 Very limited Slope 	 1.00 	 Very limited Too steep for surface application	 1.00
	; 	Restricted permeability 	0.30	Too acid 	0.31	· • •	11.00
65F2:		Too acid 	0.08	Restricted permeability 	0.22 	Too acid Restricted permeability 	0.31 0.22
Lindley	100 	 Very limited Slope 	1 1.00	 Very limited Slope 	11.00	 Very limited Too steep for surface application	11.00
		Restricted permeability 	0.30	 Too acid 	0.31		11.00

Guthrie County, Iowa

and soil name	Pct. of map unit	manure and food processing was	_	Application of sewage sludg	е	Disposal of wastewater by irrigation	1
	 	 Rating class and limiting features 		 Rating class and limiting features 		 Rating class and limiting features 	
		 Too acid 	10.08	Restricted	10.22	 Too acid 	 0.31
	 	 		 		Restricted permeability 	0.22
65F3: Lindley	 100	 Very limited Slope	 1.00	 Very limited Slope	1 1.00	 Very limited Too steep for	11.00
	i I	 	 	 	 	surface application	i I
	 	permeability 	0.30 	 	0.31 	sprinkler application	11.00
	 	Too acid 	0.08 	Restricted permeability 	0.22 	Too acid Restricted	0.31 0.22
	i !	 -	i !	 -	i !	permeability	
65G2: Lindley	1100	 Very limited		 Very limited		 Very limited	
ninarey		Slope	11.00	=	11.00	· · · · · · · · · · · · · · · · · · ·	11.00
	 	Restricted permeability	0.30 	Too acid 	0.31		11.00
	 	Too acid 	0.08	Restricted permeability	0.22	Too acid 	0.31
	 	 	 	 	 	Restricted permeability 	0.22
69D2: Clearfield	 100	 Verv limited	 	 Very limited	 	 Very limited	1
		Restricted		Restricted permeability		Restricted permeability	11.00
		permeability Depth to saturated zone	11.00		1.00	Too steep for surface	11.00
	 	 Slope 	 0.63 	 Slope 	 0.63 	application Depth to saturated zone	11.00
	 	 	 	 	 	Too steep for sprinkler application	0.77
73D2: Salida	 100	' Very limited	i I	 Very limited	i I	 Very limited	İ
	Į.	Filtering	1.00	Filtering	1.00	Filtering	11.00
	1	capacity	I	capacity	1	capacity	1

Guthrie County, Iowa

Map symbol and soil name	Pct. of map unit	manure and food processing was	_	Application of sewage sludg	re	Disposal of wastewater by irrigation	ı
		Rating class and limiting features		Rating class and limiting features		Rating class and limiting features	Value
		Droughty Leaching limitation Slope	1.00	 Droughty Slope 	11.00	Droughty Too steep for surface application Too steep for sprinkler application	1.00 1.00 1.00
76A: Ladoga	 100 	 Somewhat limited Restricted permeability 	 0.30 	 Somewhat limited Restricted permeability	0.22	 Somewhat limited Restricted permeability	0.22
76B: Ladoga	 100 	 Somewhat limited Restricted permeability 	1 0.30 1 1 1 1 1 1 1 1 1	 Somewhat limited Restricted permeability 	1 10.22		10.22
76C: Ladoga	 100 	 Somewhat limited Restricted permeability 	 0.30 	 Somewhat limited Restricted permeability 	 0.22 	Somewhat limited Too steep for surface application Restricted permeability Too steep for sprinkler application	 0.91 0.22 0.02
76C2: Ladoga	 100 	 Somewhat limited Restricted permeability 	0.30	 Somewhat limited Restricted permeability 	 0.22 	Somewhat limited Too steep for surface application Restricted permeability Too steep for sprinkler application	0.91
76D: Ladoga	 100 	 Somewhat limited Slope 	 0.63 	 Somewhat limited Slope 	0.63	 Very limited Too steep for surface application	11.00

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Map symbol and soil name	Pct. of map unit	manure and food processing was	-	Application of sewage sludg	е	Disposal of wastewater by irrigation	1
		 Rating class and limiting features 		Rating class and limiting features		Rating class and limiting features	Value
		Restricted permeability	0.30	Restricted permeability	0.22 0.22 	Too steep for sprinkler application Restricted permeability	 0.77 0.22
76D2: Ladoga	1100	 Somewhat limited	į	 Somewhat limited	į	 Very limited	į
Ladoga		Slope	0.63	•	0.63	-	11.00
		Restricted permeability l	0.30	Restricted permeability I	0.22 	Too steep for sprinkler application Restricted permeability	0.77
76E2:	1	 	1	 	 	 	1
	- 100 	Very limited Slope 	11.00	Very limited Slope	11.00	surface	11.00
		 Restricted permeability 	 0.30 	Restricted permeability 	 0.22 	application Too steep for sprinkler application Restricted permeability	 1.00 0.22
80B:					 	 	
Clinton	- 100	Somewhat limited Restricted permeability	10.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Restricted permeability	10.22
		Too acid Too acid	0.02	· •	0.07	Too steep for surface	0.08
		 		 		application Too acid	10.07
80C2: Clinton	 - 100 	 Somewhat limited Restricted permeability	0.30	 Somewhat limited Restricted permeability	0.22	surface	0.91
		 Too acid 	10.02	 Too acid	10.07	application Restricted permeability	10.22
						Too acid	10.07

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Map symbol and soil name	Pct. of map unit	manure and food processing was	-	Application of sewage sludg	e	Disposal of wastewater by irrigation	ı
		 Rating class and limiting features 		Rating class and limiting features		Rating class and limiting features	Value
	 	 	 	 	 	Too steep for sprinkler application	10.02
80D2:			1				1
Clinton	100	Somewhat limited Slope 	0.63	Somewhat limited Slope 	 0.63 	Very limited Too steep for surface application	11.00
	İ	Restricted permeability	0.30	Restricted permeability	0.22	= =	0.77
		Too acid	0.02 	Too acid	0.07 	Restricted permeability Too acid	0.22 0.07
	į		İ		į		İ
80D3: Clinton	 100 	 Somewhat limited Slope 	 0.63	 Somewhat limited Slope 	 0.63	 Very limited Too steep for surface	 1.00
		 Restricted permeability	0.30	 Restricted permeability	 0.22 	application Too steep for sprinkler application	 0.77
	 	 Too acid 	0.02	 Too acid 	0.07		0.22 0.07
88:		 				 	
Nevin	95 	 Somewhat limited Depth to saturated zone	0.43	 Somewhat limited Depth to saturated zone	0.43		10.43
93D2: Shelby	 60 	 Somewhat limited Slope 	0.63	 Somewhat limited Slope 	0.63	surface	11.00
	 	 Restricted permeability	0.30	 Restricted permeability	10.22	application Too steep for sprinkler application	 0.77
		 Too acid 	0.02	Too acid 	0.07	Restricted permeability	0.22
	l I	 	I	 	1	Too acid 	0.07
Adair	i 35	Very limited	i	 Very limited	i	 Very limited	i

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Map symbol and soil name	Pct. of map unit	manure and food processing was	_	Application of sewage sludg	e	Disposal of wastewater by irrigation	1
	 	 Rating class and limiting features 		Rating class and limiting features		Rating class and limiting features 	
		 Restricted permeability	11.00	Restricted permeability	11.00	 Too steep for surface application	11.00
		 Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	11.00
	 	Slope	0.63	Slope	0.63	Depth to saturated zone	11.00
	 	 	 		 	Too steep for sprinkler application	0.77
93D3: Shelby	 60 	 Somewhat limited Slope 	 0.63	 Somewhat limited Slope 	 0.63	surface	 1.00
		 Restricted permeability	0.30	Restricted permeability	0.22	application Too steep for sprinkler application	0.77
	 	 Too acid 	0.02	Too acid 	0.07		0.22 0.07
Adair	 .1 35	 Very limited		 Very limited		 Very limited	1
nddii		Restricted permeability		Restricted permeability	11.00		11.00
	i i	Depth to saturated zone	1.00	Depth to saturated zone	1.00		11.00
	 	Slope	0.63	Slope	0.63	_	11.00
	 	 	 	 	 	Too steep for sprinkler application 	0.77
93E2: Shelby	 60	 Very limited	1	 Very limited	1	 Very limited	1
		Slope	1.00	=	11.00	Too steep for surface	11.00
		 Restricted permeability	0.30	Restricted permeability	10.22	application Too steep for sprinkler application	11.00
	 	 Too acid 	0.02	Too acid	0.07	Restricted permeability	0.22
	İ	 			İ	Too acid	0.07
Adair	30	 Very limited		 Very limited		 Very limited	

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± ±	Pct. of map unit	manure and food processing was	l-	Application of sewage sludg		Disposal of wastewater by irrigation 	
				Rating class and limiting features			
	 			Restricted permeability	1	 Too steep for surface application	11.00
	 	Slope 		Slope	1.00 	Too steep for sprinkler application	11.00
		Depth to saturated zone		Depth to saturated zone 	11.00		11.00
93E3:		 				 	
Shelby				Very limited Slope 	11.00	Very limited Too steep for surface application	11.00
	 			Restricted permeability	0.22	Too steep for sprinkler application	11.00
		Too acid 	0.02 	Too acid 	İ	Restricted permeability Too acid	0.22 0.07
Adair	 30	 Very limited		 Very limited		 Very limited	1
		Restricted	11.00	Restricted permeability	11.00	Too steep for surface application	11.00
	 	Slope 	11.00	Slope 	11.00		11.00
	 			Depth to saturated zone l	1.00 		11.00
95: Harps	İ I			Depth to saturated zone		 Very limited Depth to saturated zone 	11.00
107: Webster	 95 	Depth to	11.00	Depth to	11.00	 Very limited Depth to saturated zone	11.00

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Map symbol and soil name	Pct. of map unit	manure and food processing was	-	Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features		Rating class and limiting features		Rating class and limiting features	
	-¦ 	 Leaching limitation	0.70			 	
108A:		 	1	 	1	 	1
Wadena	- 100	Very limited Filtering capacity		Very limited Filtering capacity		Very limited Filtering capacity	11.00
108B:		 	1]]	1	 	1
Wadena	- 100 	 Very limited Filtering capacity 		 Very limited Filtering capacity 		Very limited Filtering capacity Too steep for surface application	 1.00 0.08
108C2: Wadena	 - 100 	 Very limited Filtering capacity 	 1.00 1 1 1 1	 Very limited Filtering capacity 	 1.00 1 1 1 1 1 1 1 1 1 1		 1.00 0.91 0.02
133A:		 	1	1	1	 	l
	- 100 	Very limited	 1.00 0.70 0.60	saturated zone	 1.00 1.00 	saturated zone	11.00
133A+: Colo	 - 100 		1.00	saturated zone	1.00	saturated zone	11.00
133B: Colo	- 100 	 Very limited Depth to saturated zone	1 1.00	 Very limited Depth to saturated zone	1 1.00	 Very limited Depth to saturated zone	1 1.00

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Map symbol and soil name	 Pct. of map unit	manure and food processing was	_	Application of sewage sludg 	e	Disposal of wastewater by irrigation 	
	 	Rating class and limiting features		Rating class and limiting features		Rating class and limiting features	
		 	 	 	 	Too steep for surface application	 0.08
133B+: Colo	 - 100 		 1.00 	 Very limited Depth to saturated zone 	 1.00 	 Very limited Depth to saturated zone Too steep for surface application	 1.00 0.08
138B: Clarion	 - 100 	 Not limited 	 	 Not limited 	 	 Somewhat limited Too steep for surface application	 0.08
138B2: Clarion	 - 100 	 Not limited 	 	 Not limited 	 	 Somewhat limited Too steep for surface application	0.08
138C: Clarion	 - 100 	 Not limited 	 	 Not limited 	 	 Somewhat limited Too steep for surface application Too steep for sprinkler application	 0.91 0.02
138C2: Clarion	 - 100 	 Not limited 	 	 Not limited 	 		 0.91 0.02
138D2: Clarion	 - 100 	 Somewhat limited Slope 	 0.63 	 Somewhat limited Slope 	 0.63 	 Very limited Too steep for surface application	 1.00

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Map symbol and soil name	Pct. of map unit	manure and food processing was	_	Application of sewage sludg 	re	Disposal of wastewater sy irrigation	1
	i I			Rating class and limiting features			
	 	 	 	 		Too steep for sprinkler application	 0.77
138E: Clarion	 - 100 	 Very limited Slope 	 1.00 	 Very limited Slope 	 1.00 	 Very limited Too steep for surface application	 1.00
179D2:	 	 		 	 	Too steep for sprinkler application 	1.00
Gara	- 100 	 Somewhat limited Slope 	0.63	 Somewhat limited Slope 	0.63	 Very limited Too steep for surface application	11.00
		Restricted permeability 	0.30 	Restricted permeability 	0.22 	Too steep for sprinkler application Restricted permeability	0.77 0.22
179E2: Gara	 - 100 	 Very limited Slope 	11.00	 Very limited Slope	11.00	surface	11.00
	 	 Restricted permeability 	0.30	 Restricted permeability 	 0.22 	application Too steep for sprinkler application Restricted	1.00 0.22
179F2: Gara	 - 100			 - Very limited		permeability Very limited	
		Slope 	11.00	 	 	Too steep for surface application	11.00
		Restricted permeability 	0.30 	Restricted permeability 	0.22	Too steep for sprinkler application Restricted permeability	1.00 0.22
179G2: Gara				 Very limited		 Very limited	1

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Map symbol and soil name	Pct. of map unit 	manure and food processing was	_	Application of sewage sludg l		Disposal of wastewater by irrigation	ı
	i I	Rating class and limiting features		Rating class and limiting features		Rating class and limiting features	
	 	 Slope 	11.00	 Slope 	11.00	 Too steep for surface application	 1.00
		Restricted permeability	0.30	Restricted permeability	0.22		1.00 0.22
192D2:		 	 	 		permeability	
Adair	100 	Very limited Restricted permeability 		Very limited Restricted permeability	11.00	Very limited Too steep for surface application	11.00
	i I	Depth to saturated zone Slope		Depth to saturated zone Slope	1.00 0.63	Restricted permeability	1.00 1.00
	 	 	 	 	 	saturated zone Too steep for sprinkler application	 0.77
192E2:	İ		į		į		į
Adair	100 			Very limited Restricted permeability	11.00	Very limited Too steep for surface application	11.00
	i I	Slope 	1.00	Slope 	1.00		11.00
	; ; ;	Depth to saturated zone	1.00	Depth to saturated zone	1.00	Restricted permeability	1.00 1.00
192E3:	 	 		 	 	saturated zone 	
Adair	j	Restricted	11.00		11.00	· -	 1.00
	 	Slope 	1.00	Slope	1.00	Too steep for sprinkler application	1.00
		 Depth to saturated zone 	11.00	Depth to saturated zone	11.00	Restricted permeability Depth to	1.00 1.00
	i		İ	İ	İ	saturated zone	i

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and soil name	Pct. of map unit	manure and food processing was	-	Application of sewage sludg		Disposal of wastewater by irrigation	1
	 			Rating class and limiting features			
201B: Olmitz	 50 	 Not limited 		 Not limited 		 Somewhat limited Too steep for surface application	 0.31
Colo	30 	Depth to saturated zone	1.00 	 Very limited Depth to saturated zone Flooding 	1.00 	 Very limited Depth to saturated zone Flooding Too steep for surface application	 1.00 1.00 0.08
203: Cylinder	 95 	Filtering capacity	1.00	capacity	1.00 0.43	 Very limited Filtering capacity Depth to saturated zone	 1.00 0.43
212: Kennebec	 95 	 Somewhat limited Flooding				 Somewhat limited Flooding	 0.60
220: Nodaway	 95 			 Very limited Flooding		 Somewhat limited Flooding	 0.60
222C2: Clarinda	 100 	Restricted permeability	1.00 1.00 0.40	 	1.00 1.00 0.07	•	
222D2: Clarinda	 100 	=	 1.00	 Very limited Restricted permeability	 1.00	 Very limited Restricted permeability	 1.00

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Map symbol and soil name	Pct. of map unit	manure and food- processing wast		Application of sewage sludg	е	Disposal of wastewater by irrigation	1
		Rating class and limiting features		Rating class and limiting features			
	 	Depth to saturated zone	 1.00 	Depth to saturated zone	11.00	Too steep for surface application	11.00
	İ	Slope	0.63	Slope	0.63		11.00
	į	Runoff limitation	0.40	Too acid	0.07	Too steep for sprinkler	0.77
		 Too acid	 0.02	 	 	application Too acid	10.07
236B: Lester	 - 100 	 Not limited 	 	 Not limited 	 	 Somewhat limited Too steep for surface application	 0.08
236C2: Lester	 - 100 	 Not limited - - - - -		 Not limited - - - - -	 		 0.91 0.02
236D2: Lester	 - 100 		 0.63 	 Somewhat limited Slope 	 0.63 	 Very limited Too steep for surface application Too steep for sprinkler application	 1.00 0.77
269: Humeston	 - 100 	Restricted permeability Depth to saturated zone Flooding Leaching limitation	1.00 1.00	permeability Depth to saturated zone Flooding Too acid	1.00 1.00	permeability Depth to saturated zone Flooding	 1.00 1.00 1.00 0.60 0.07
273B: Olmitz	 - 100	 Not limited	 	 Not limited	 	 Somewhat limited	

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	Map symbol and soil name	Pct. of map unit	manure and food processing was	-	Application Of sewage sludg	re	Disposal of wastewater by irrigation	n
		 						Value
Olmitz		 	 	 	 		surface	 0.08
Wadena		 - 100 	 Not limited 	 	 Not limited 		Too steep for surface application Too steep for sprinkler	i I
Wadena		 - 100 	Filtering		Filtering		Filtering	11.00
Wadena		 - 100 	Filtering		Filtering		Filtering capacity Too steep for surface	i
Gosport		 - 100 	Filtering capacity	1.00 	Filtering capacity	1.00 	Filtering capacity Too steep for surface application Too steep for sprinkler	11.00
saturated zone saturated zone sprinkler		 - 100 	Slope 	0.96 	Slope 	 	Too steep for surface application	
			saturated zone 	 	saturated zone	 	sprinkler application	I I
saturated zone saturated zone seturated zone solution			I	1	I		saturated zone	

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and soil name	 Pct. of map unit	manure and food processing was	-	Application of sewage sludg 	e	 Disposal of wastewater by irrigation 	
	 	Rating class and limiting features 		Rating class and limiting features		Rating class and limiting features	
	 	 Restricted permeability 	 0.30 	Restricted permeability	 0.22 	 Depth to bedrock 	 0.46
313F2: Gosport	 100 	-	 1.00 	 Very limited Slope 	 1.00 	 Very limited Too steep for surface application	 1.00
	 	Depth to saturated zone	0.95 	Depth to saturated zone	0.95 		11.00
	 	Droughty 	0.50	Droughty	0.50		0.95
	 	Depth to bedrock Restricted permeability	0.46 0.30		0.46 0.22	Droughty	0.50 0.46
315: Alluvial Land	 90 	 Not rated 	 	 Not rated 	 	 Not rated 	
318F: Clanton	 100 	Slope 	 1.00 1.00 	permeability	 1.00 1.00 	permeability	 1.00 1.00 1.00 1
354: Marsh	 95 	 Not rated 	 	 Not rated 	 - - - - -	 Not rated 	
368: Macksburg	 95 	Restricted permeability	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	permeability	 0.22 0.07	 Somewhat limited Restricted permeability Too acid	 0.22 0.07

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and soil name	Pct. of map unit	manure and food processing was	_	Application of sewage sludg	е	Disposal of wastewater by irrigation	1
		 Rating class and limiting features		Rating class and limiting features		Rating class and limiting features	Value
370A: Sharpsburg	100	Restricted permeability	 0.30 0.02	permeability	 0.22 0.07	permeability	 0.22 0.07
370B:	100	Restricted permeability	 0.30 0.02 	permeability	 0.22 0.07 	permeability	 0.22 0.08 0.07
370C: Sharpsburg	100	Restricted permeability	 0.30 0.02 1 1	permeability	 0.22 0.07 1 1		 0.91 0.22 0.07 0.02
370C2:	100	Restricted permeability	 	permeability	 0.22 0.07 	Somewhat limited Too steep for surface application Restricted permeability Too acid Too steep for sprinkler application	 0.91
370D: Sharpsburg	100		 0.63 0.30	 Somewhat limited Slope Restricted	 0.63 0.22	 Very limited Too steep for surface application Too steep for	 1.00 0.77
 		Restricted permeability 	0.30 	Restricted permeability 	0.22	Too steep for sprinkler application	U .

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Map symbol and soil name	Pct. of map unit	manure and food processing was	-	Application of sewage sludg	e	Disposal of wastewater by irrigation	1
		 Rating class and limiting features 		 Rating class and limiting features 		Rating class and limiting features 	
	 	 Too acid 	10.02	 Too acid 	0.07	Restricted permeability Too acid	 0.22 0.07
370D2: Sharpsburg	 100	 Somewhat limited	 	 Somewhat limited	 	100 acid Very limited	
			0.63		0.63	=	1.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler	0.77
		 Too acid 	10.02	 Too acid 	0.07	application Restricted permeability	0.22
370E2:	 	 	 	 	 	Too acid 	0.07
Sharpsburg	100 		 1.00 	Very limited Slope 	11.00	Very limited Too steep for surface application	 1.00
	i 	Restricted permeability	0.30	Restricted permeability	0.22	= =	11.00
	 	Too acid 	0.02	Too acid 	0.07	Restricted permeability Too acid	0.22 0.07
415D:		 		 		 	
Montieth	100 	Very limited Droughty 	 1.00 	Very limited Droughty 	11.00	Very limited Too steep for surface application	 1.00
	į į	Filtering capacity	1.00	Filtering capacity	1.00		11.00
	i i		0.63		0.63	Filtering capacity	11.00
	 	Depth to bedrock	0.26	Depth to bedrock		Too steep for sprinkler	0.77
		 Too acid 	10.02	 Too acid 	0.07	application Depth to bedrock 	0.26
415E: Montieth	100 	 Very limited Droughty 	 1.00	 Very limited Droughty 	 1.00	surface	 1.00
		 Slope	 1.00	 Slope	 1.00	application Droughty	 1.00

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Map symbol and soil name	Pct. of map unit	manure and food processing was		Application of sewage sludg 	e	Disposal of wastewater by irrigation 	n
		 Rating class and limiting features 		Rating class and limiting features		Rating class and limiting features	
	 	 Filtering capacity	11.00	 Filtering capacity	11.00	 Too steep for sprinkler application	11.00
	į	Depth to bedrock	0.26	Depth to bedrock	0.26		11.00
	İ	Too acid	0.02	Too acid	0.07	= =	0.26
415F: Montieth	i 100	•		 Very limited		 Very limited	
	 	Slope 	1.00 	Slope 	1.00 	Too steep for surface application	11.00
		Droughty	1.00	Droughty	1.00		1.00
		 Filtering capacity	1.00	Filtering capacity	1.00	• • •	1.00
	İ	Depth to bedrock	0.26		0.26	Filtering capacity	11.00
	i i	Too acid 	0.02	Too acid	0.07		0.26
416E: Hesch	 100	 Very limited	i i	 Very limited	i i	 Very limited	İ
		Filtering capacity	1.00	-	11.00	_	11.00
		Slope	0.96	Slope	0.96		11.00
		Droughty 	0.74	Droughty 	0.74		0.97
		Depth to bedrock Too acid	0.46	· ·	0.46	Droughty	0.74
417D: Hesch	 100 	 Very limited Filtering capacity	11.00	 Very limited Filtering capacity	11.00	 Very limited Too steep for surface	1 1.00
		capacity Slope	0.63	1	0.63	application	11.00
		 Depth to bedrock 	 0.46 	Depth to bedrock	 0.46 	sprinkler	 0.77
		 Droughty	10.39	Too acid	10.42	-	
	I	Too acid	0.11	Droughty	10.39	Too acid	0.42

Guthrie County, Iowa

and soil name	 Pct. of map unit	manure and food processing was	_	Application of sewage sludg 		Disposal of wastewater by irrigation 	
	i 			Rating class and limiting features			
417E: Hesch	 100 		 1.00	 Very limited Slope 	 1.00	 Very limited Too steep for surface application	 1.00
	 	Filtering capacity 	1.00 	Filtering capacity	11.00		11.00
	 	Depth to bedrock Droughty	0.46	I	0.46 0.42	capacity	1.00 0.46
420D.			0.11		0.39	-	0.42
428B: Ely	 95 	 Somewhat limited Depth to saturated zone 	 0.43 	 Somewhat limited Depth to saturated zone 	0.43	saturated zone	0.43
485A: Spillville	 95 				1 1 1 1 1 1 1 1 1 1	 Somewhat limited Flooding	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
507: Canisteo	 95 	Depth to saturated zone		Depth to saturated zone	 1.00 	 Very limited Depth to saturated zone 	1 1.00
585B: Colo	 60 	•	1.00	 Very limited Depth to saturated zone 		saturated zone	 1.00 0.08
Spillville	 30 	 Not limited 	 	 Not limited 	 	 Somewhat limited Too steep for surface application	1 10.08
615B: Colo	 60	 Very limited	 	 Very limited	 	 Very limited	

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Rating class and limiting features lumiting features lumiting features lumited zone lumited lu	 	limiting features 	 	Rating class and limiting features Depth to saturated zone Too steep for surface application Somewhat limited Too steep for	Value
saturated zone		saturated zone		saturated zone Too steep for surface application Somewhat limited	i
 Very limited		 Not limited 	 		1
. 4			 	surface application	0.08
capacity Droughty I I I I	 1.00 0.34 	capacity	 1.00 0.34 	capacity	 1.00 0.91 0.34 0.02
	10.30	 Somewhat limited Restricted permeability Too acid 	 1 0.22 1 1 0.07 1 1 1		 0.91 0.22 0.07 0.02
	11.00	Filtering capacity Slope 	1.00 0.63	Too steep for surface application Filtering capacity	 1.00 1.00 1.00 0.77

Guthrie County, Iowa

and soil name	Pct. of map unit	manure and food- processing waste		 Application of sewage sludge 		Disposal of wastewater by irrigation	
	 	Rating class and limiting features 		Rating class and limiting features 		Rating class and limiting features	Value
	 	 Slope 	10.63	Slope	10.63	 Too steep for surface application	11.00
		Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.77
		 Too acid 	0.02	 Too acid 	0.07	· • •	10.22
733:	 	 		 		 	
Calco	100 	Very limited Depth to saturated zone Leaching	 1.00 0.70	saturated zone	 1.00 1.00	saturated zone	 1.00 0.60
	 	limitation Flooding 	 0.60 	 	 	 	
822D2: Lamoni	 100		1			 Very limited	1
Lamont	 	Very limited Restricted permeability 	11.00	Very limited Restricted permeability 	11.00	•	11.00
	 	Depth to saturated zone	1.00 0.63	saturated zone	1.00 0.63	Restricted permeability	1.00 1.00
	 	Too acid	0.01	İ	0.01	saturated zone	10.77
	 	 		 		Too acid	0.01
822E2: Lamoni 100 	 100 	 Very limited Restricted permeability	1 1.00	 Very limited Restricted permeability	1 1.00	surface	11.00
	 	 Slope 	11.00	 Slope 	11.00	sprinkler	11.00
	 	 Depth to saturated zone		saturated zone	11.00	Restricted permeability	11.00
 	 	Too acid 	0.01 	Too acid 	0.01 	Depth to saturated zone Too acid	1.00 0.01
993E2: Gara	 60	 Very limited		 Very limited		 Very limited	1

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Map symbol and soil name	Pct. of map unit	processing waste		 Application of sewage sludge 		Disposal of wastewater by irrigation	
	 	Rating class and limiting features		Rating class and limiting features		Rating class and limiting features	Value
		 Slope 	11.00	 Slope 	11.00	 Too steep for surface application	11.00
	 	Restricted permeability	0.30	Restricted permeability I	0.22	Too steep for sprinkler application Restricted permeability	11.00
Armstrong	 30 	. =	 1.00 	 Very limited Restricted permeability	 1.00 	 Very limited Too steep for surface application	 1.00
	 	Slope 	1.00 	Slope 	1.00 	Too steep for sprinkler application	1.00
	 	Depth to saturated zone 	1.00	Depth to saturated zone	1.00	Restricted permeability	11.00
C133A: Colo	 95 	Depth to saturated zone	 1.00 1.00 0.70	saturated zone	 1.00 1.00	saturated zone	 1.00 1.00
C220: Nodaway	 90 			 Very limited Flooding	1 1 1 1 1 1 1 1 1 1	 Very limited Flooding 	1 1 1 1 1 1 1 1 1 1
T9B: Marshall	 100 	 Not limited 	 	 Not limited 	 	 Somewhat limited Too steep for surface application	0.08
T76B: Ladoga	 100 	 Somewhat limited Restricted permeability 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	 Somewhat limited Restricted permeability 	 0.22 	 Somewhat limited Restricted permeability Too steep for surface application	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Map symbol and soil name	of map	Pct. Application of manure and food- map processing wast unit		of sewage sludge		 Disposal of wastewater by irrigation	
	 	Rating class and limiting features		Rating class and limiting features		Rating class and limiting features 	Value
T370B: Sharpsburg	 100 	 Somewhat limited Restricted permeability Too acid 	0.30	 Somewhat limited Restricted permeability Too acid 	0.22	permeability	 0.22 0.08
W: Water	 100 	 Not rated 	 	 Not rated 		 Not rated 	